

# I-81 VIADUCT PROJECT – PHASE 1, CONTRACT 2

# **DESIGN-BUILD PROJECT**

PIN 3501.91, Contract D900056

**Request for Proposals** 

Addendum #9

March 3, 2023

# Modification to the Request for Proposals I-81 VIADUCT PROJECT – PHASE 1, CONTRACT 2 Design-Build Project PIN 3501.91, Contract D900056

#### **Note to Proposers**

Differences between the deleted pages and the revised pages have been identified as follows:

- Brackets have been inserted on the left-hand margin of the pages to indicate where changes have been made to the documents; and
- Text additions have been shown in underlined red font and text deletions have been shown in crossed out red font.

#### **General Instructions**

Delete Page C-9 of the Instructions to Proposers, Appendix C, Technical Submittal, and substitute the attached revised Page C-9.

Delete Form SP of the Instructions to Proposers, Appendix E, Forms, and substitute the attached revised Form SP.

Delete Pages 172, 177, 178, and 179 of the DB Contract Documents, Part 3, Project Requirements, and substitute the attached revised Pages 172, 177, 178, and 179.

Delete Page 4-14 of the DB Contract Documents, Part 4, Appendix A, Utility Requirements, and substitute the attached revised Page 4-14.

Delete Drawings VBD-02 and NBD-02 of the DB Contract Documents, Part 6, RFP Plans – Directive Plans, and substitute the attached revised Drawings VBD-02 and NBD-02.

Delete Drawings SG-08 and SG-10 of the DB Contract Documents, Part 6, RFP Plans – Indicative Plans, and substitute the attached revised Drawings SG-08 and SG-10.

Delete the attached Specification for ITEM 643.99010004 – PRECAST CONCRETE NOISE BARRIER SYSTEM of the DB Contract Documents, Part 8, Special Specifications, and substitute the attached revised Specification for ITEM 643.99010004 – PRECAST CONCRETE NOISE BARRIER SYSTEM. Please note, there are no tracked changes included and the Specification has been replaced in its entirety.

No other provision of the solicitation is otherwise changed or modified.

# Table C Format of Volume 2

Volume 2, Section 1 - Design-Build Organization and Process	Proposal Component Re				
C2.1   Volume 2, Section 1B - Overall Design-Build Team Organization   Design-Build Team Organization Chart ((Narrative, Max 75 pages plus 11x17 org chart)   C2.2.1     Design-Build Team Communication Protocol ((Narrative, Max 5 pages plus 11x17 communication graphic)   C2.2.2     C2.2.3   Volume 2, Section 2 - Design Build Approach to the Project (Technical Solutions)   Volume 2, Section 2A - Project Understanding   Project Understanding (Narrative, max 6 pages, Form R1 - max 6 pages, Form R2 - max 6 pages)   C3.1     Volume 2, Section 2B - Design Solutions   C3.2.1     Copies of Department's approval letters for each ATC that is incorporated into the Proposer's Proposal along with each submitted ATC that was approved and used.   Noise Abatement Justification Memo (maximum 2 pages)   C3.2.3     Volume 2, Section 2C - Construction Approach (Means and Methods)   Overall Project Construction Sequence ( maximum 6 pages)   C3.3.1     Work Zone Traffic Control (maximum 3 pages)   C3.3.2     Means & Methods/Sequence of Work at the CSX Bridges (max. 2 pages)   C3.3.3     Protection of Existing Facilities (maximum 1 pages)   C3.3.5     Drainage Modifications (maximum 2 pages)   C3.3.6     Railroad Management Plan (maximum 2 pages)   C3.3.7     Volume 2, Attachment A - Design Drawings   Project Limits   C3.2.2     Construction Phasing   C3.2.2     Renderings   C3.2.2     Renderings   C3.2.2     Volume 2, Attachment B - Project Schedules   Initial Baseline Progress Schedule (maximum 25 pages)   C4.1     Initial Baseline Progress Schedule Narrative (maximum 8 pages)   C4.1	Volume 2, Section 1 – Design-Build Organization and Process	•			
Volume 2, Section 1B – Overall Design-Build Team Organization Chart (Narrative, Max 75 pages plus 11x17 org chart)         C2.2.1           Design-Build Team Organization Chart (Narrative, Max 5 pages plus 11x17 org chart)         C2.2.2           Design-Build Quality Control Plan (max 259 pages plus org charts)         C2.2.3           Volume 2, Section 2 – Design Build Approach to the Project (Technical Solutions)         Volume 2, Section 2A – Project Understanding           Project Understanding (Narrative, max 6 pages, Form R1 – max 6 pages, Form R2 – max 6 pages)         C3.1           Volume 2, Section 2B – Design Solutions         C3.2.1           Design Approach (Narrative, max 15 pages)         C3.2.1           Copies of Department's approval letters for each ATC that is incorporated into the Proposer's Proposal along with each submitted ATC that was approved and used.         Noise Abatement Justification Memo (maximum 2 pages)         C3.2.3           Volume 2, Section 2C – Construction Approach (Means and Methods)         Overall Project Construction Sequence ( maximum 6 pages)         C3.3.1           Work Zone Traffic Control (maximum 3 pages)         C3.3.2           Means & Methods/Sequence of Work at the CSX Bridges (max. 2 pages)         C3.3.3           Protection of Existing Facilities (maximum 2 pages)         C3.3.5           Drainage Modifications (maximum 2 pages)         C3.3.5           Drainage Modifications (maximum 2 pages)         C3.3.6	Volume 2, Section 1A – Key Personnel				
Design-Build Team Organization Chart (Narrative, Max 75 pages plus 11x17 org chart) Design-Build Team Communication Protocol (Narrative, Max 5 pages plus 11x17 communication graphic) Design-Build Quality Control Plan (max 250 pages plus org charts) C2.2.3 Volume 2, Section 2 – Design Build Approach to the Project (Technical Solutions) Volume 2, Section 2A – Project Understanding Project Understanding (Narrative, max 6 pages, Form R1 – max 6 pages, Form R2 – max 6 pages) Volume 2, Section 2B – Design Solutions Design Approach (Narrative, max 15 pages) C3.1 Copies of Department's approval letters for each ATC that is incorporated into the Proposer's Proposal along with each submitted ATC that was approved and used. Noise Abatement Justification Memo (maximum 2 pages) C3.2.3 Volume 2, Section 2C – Construction Approach (Means and Methods) Overall Project Construction Sequence ( maximum 6 pages) C3.3.1 Work Zone Traffic Control (maximum 3 pages) C3.3.2 Means & Methods/Sequence of Work at the CSX Bridges (max. 2 pages) C3.3.3 Protection of Existing Facilities (maximum 1 pages) C3.3.4 Utility Work (maximum 2 pages) C3.3.5 Drainage Modifications (maximum 2 pages) C3.3.6 Railroad Management Plan (maximum 2 pages) C3.3.7 Volume 2, Attachment A – Design Drawings Project Limits C3.2.2 General Configurations Construction Phasing Demolition Limits C3.2.2 Renderings C3.2.2 Renderings C3.2.2 Renderings C4.1 Initial Baseline Progress Schedule (maximum 25 pages) C4.1 Initial Baseline Progress Schedule (maximum 8 pages)	Key Personnel Form R	C2.1			
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Drainage Modifications (maximum 2 pages)  Railroad Management Plan (maximum 2 pages)  Volume 2, Attachment A – Design Drawings  Project Limits  General Configurations  Construction Phasing  Demolition Limits  Ca.2.2  Renderings  Ca.2.2  Work Zone Traffic Control  Volume 2, Attachment B – Project Schedules  Initial Baseline Progress Schedule (maximum 25 pages)  Initial Baseline Progress Schedule Narrative (maximum 8 pages)  Ca.3.6  Ca.3.6  Ca.3.7  Ca.3.7  Ca.3.7  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.2  Ca.3.3	Protection of Existing Facilities (maximum 1 pages)				
Railroad Management Plan (maximum 2 pages)  Volume 2, Attachment A – Design Drawings  Project Limits  Gardinations  Construction Phasing  Construction Phasing  Construction Limits  Condition Limits  Condition Limits  Construction Phasing  Con	Utility Work (maximum 2 pages)	C3.3.5			
Volume 2, Attachment A – Design DrawingsProject LimitsC3.2.2General ConfigurationsC3.2.2Construction PhasingC3.2.2Demolition LimitsC3.2.2RenderingsC3.2.2Work Zone Traffic ControlC3.3.2Volume 2, Attachment B – Project SchedulesInitial Baseline Progress Schedule (maximum 25 pages)C4.1Initial Baseline Progress Schedule Narrative (maximum 8 pages)C4.1	Drainage Modifications (maximum 2 pages)				
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General Configurations C3.2.2 Construction Phasing C3.2.2 Demolition Limits C3.2.2 Renderings C3.2.2 Work Zone Traffic Control C3.3.2  Volume 2, Attachment B – Project Schedules Initial Baseline Progress Schedule (maximum 25 pages) Initial Baseline Progress Schedule Narrative (maximum 8 pages) C4.1	Volume 2, Attachment A – Design Drawings				
Construction Phasing C3.2.2  Demolition Limits C3.2.2  Renderings C3.2.2  Work Zone Traffic Control C3.3.2  Volume 2, Attachment B - Project Schedules  Initial Baseline Progress Schedule (maximum 25 pages) C4.1  Initial Baseline Progress Schedule Narrative (maximum 8 pages) C4.1	Project Limits	C3.2.2			
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Initial Baseline Progress Schedule Narrative (maximum 8 pages)  C4.1	Volume 2, Attachment B – Project Schedules				
	Initial Baseline Progress Schedule (maximum 25 pages)	C4.1			
Form SCD – Schedule of Contract Durations C4.2	Initial Baseline Progress Schedule Narrative (maximum 8 pages)	C4.1			
	Form SCD – Schedule of Contract Durations	C4.2			

Note: Volume 2, Attachment A – Design Drawings, shall be submitted in a separate 11"x17" binder.

# FORM SP SCHEDULE OF PRICES

Dag.	ooser:		
PIU	Josef.		

Item #	Item Name	<u>Price</u> (1)
800.06000115	Design Build – Construction Work – Bridge No. 14	
800.06000215	Design Build – Construction Work – Bridge No. 15	
800.06000315	Design Build – Construction Work – Bridge Nos. 16 & 17	
800.06000415	Design Build – Construction Work – Bridge No. 1	
800.06000515	Design Build – Construction Work – Bridge No. 7	
800.06000615	Design Build – Construction Work – Bridge No. 8	
800.06000715	Design Build – Construction Work – Bridge No. 9	
800.06000815	Design Build – Construction Work – Bridge No. 10	
800.06000915	Design Build – Construction Work – Bridge No. 11	
800.06001015	Design Build – Construction Work – Bridge Nos. 12 & 18	
800.06001115	Design Build – Construction Work – Bridge No. 13	
800.06001215	Design Build – Construction Work – Exit 3 to Northern Project Limit (not including Bridge Work), including Route 5 and Route 5/92 Intersection	
800.06001315	Design Build – Construction Work – Southern Interchange, including adjacent work to and from the Southern Interchange (not including Bridge Work)	
800.06001415	Design Build – Construction Work – Noise Barriers & Visual Barrier	
800.06001515	Design Build – Construction Work – Bridge Demolition and Removal	
800.06010115	Design Build – Construction Work – Steel Superstructure Repairs – Directive Repairs	
800.06020015	Design Build – Construction Work – Steel Superstructure Repairs – Unanticipated Repairs	\$2,000,000
800.06060115	Design Build – Construction Work – Concrete Substructure Repairs – Directive Repairs	
800.06070015	Design Build – Construction Work – Concrete Substructure Repairs – Unanticipated Repairs	\$2,000,000

800.06080115	Design Build – Construction Work – Concrete Retaining Wall Repair Work – Directive Repairs	
800.04001115	Design Build – Extra Work	\$ <del>18</del> <u>20</u> ,000,000
	Subtotal A	
800.05000015	Design Build – Site Mobilization (Maximum 4% of Subtotal A)	
	Subtotal B (Sum of Subtotal A and Site Mobilization)	
800.14000115	Design Build – Local Hire Incentive	\$3,105,000
800.15000115	Design Build – Training Requirements	\$1,201,000
800.16000120	Steel/Iron Price Adjustment	\$4,000,000
800.01000015	Design Build – Design Services	
800.02000015	Design Build – Construction Inspection Services	
800.03000015	Design Build – Quality Control Services	
	TOTAL PROPOSAL PRICE	

#### **Notes:**

- A) Proposers shall complete Form SP using the excel spreadsheet located on the Department's Project web site.
- B) Subtotal B will be the value used to *calculate* the 30% Prime/DB self work requirement less any Self Performance Specialty Items included in Part 5 Special Provisions.

#### **Instructions:**

A) Enter Lump Sum Price for each Price Item in the white, non-shaded, cells.

• Shop drawings, which must be viewed and approved by R3 ITS/TMC before being used on the project.

## 18.8 DEVICE REQUIREMENTS

Equipment	Associated Item Number
100 ft Camera Pole with 5 Lowering Devices	683.04100502
IP Power Distribution Unit	683.96100305
5.8 GHz Point to Multipoint Ethernet Radio	683.10900010 and 683.10910010
Camera Assembly	683.10120008
MPEG-2/4 Video Encoder-Decoder	683.95010011
Ethernet Switch	683.95050010
Base-Mounted Equipment Cabinet Type 332	683.06010013
Variable Message Sign	683.93183104
Acoustic/Radar Vehicle Detector Assembly	683.91150010
Aluminum Microcomputer Cabinet Base	680.80325010
Electrical Disconnect/Generator Transfer Switch	680.94997008
Road Weather Information System Type 1	683.30240108
Ice Detention Systems:	
<ul> <li>Flashing Beacon Sign Assembly</li> </ul>	680.8220
<ul> <li>Pedestrian Signal Pole—Bracket Mount</li> </ul>	<u>680.681802</u>

Memorial Day Labor Day	Monday	6:00 AM Friday before to 6:00 AM Tuesday after
Thanksgiving Day	Thursday	6:00 AM Wednesday before to 6:00 AM Monday after

Exceptions can only be made under the following conditions:

- Emergency work.
- Work within long-term stationary lane/shoulder closures.
- Safety work that does not adversely impact traffic mobility and has been authorized by the Regional Traffic Engineer.

<u>Note</u>: The Department reserves the right to cancel any work operations, including lane closures and/or total road closures, that would create traffic delays by unforeseen events. The Design-Builder would be notified at least seven (7) calendar days prior to the proposed work.

# 19.3.4 Access to Commercial Properties and Driveways

Design-Builder shall maintain access to businesses for vehicles, pedestrians, and bicyclists. If access cannot be maintained, the Design-Builder shall notify the business and provide alternative access. If alternative access cannot be provided, the Design-Builder shall conduct work when the business is not operational and shall restore access during business hours. As committed to in the FEIS, the Design-Builder shall install temporary business signs to identify entrances and direct customers to business that would be affected by detours, if applicable.

#### 19.3.5 Closure Restrictions

Closure Restrictions

A. Daily or Temporary Lane or Shoulder closures will not be permitted as shown below:

	AM PEAK PERIOD				
ROUTE	DIR	LIMIT (FROM)	LIMIT (TO)	LANE CLOSURE RESTRICTION FROM	LANE CLOSURE RESTRICTION TO
I-81	<del>SB</del> NB	ROUTE 31 CICERO11 NEDROW	ADAMS ST ON RAMP 1-690	6:00AM	9:00AM
I-481	SB	I-81 N. SYRACUSE	RTE 5 & 92 EXIT	6:00AM	9:00AM
I-481	NB	ROUTES 5 & 92 EXIT	I-90	6:00AM	9:00AM
<u>l-690</u>	<u>EB</u>	<u>I-90</u>	I-481 DEWITT	<u>6:00AM</u>	<u>9:00AM</u>
<u>l-690</u>	<u>WB</u>	I-481 DEWITT	WEST ST SYRACUSE	<u>6:00AM</u>	<u>9:00AM</u>
RTE 481	SB	ROUTE 31	I-81 N. SYRACUSE	6:00AM	9:00AM
ROUTE 92	EB/WB	JUNCTION WITH NY5	WOODCHUCK HILL RD	6:00AM	10:00AM

	PM PEAK PERIOD				
ROUTE	DIR	LIMIT (FROM)	LIMIT (TO)	LANE CLOSURE RESTRICTION FROM	LANE CLOSURE RESTRICTION TO
<u>I-81</u>	<u>SB</u>	<u>I-690</u>	ROUTE 11 NEDROW	3:00PM	<u>6:00PM</u>
I-481	NB	RTE 5 & 92 EXIT	I-81 N. SYRACUSE	3:00PM	6:00PM
I-481	SB	I-690	RTE 5 & 92 EXIT	3:00PM	6:00PM

177

<u>l-690</u>	<u>EB</u>	WEST ST SYRACUSE	<u>I-481</u>	3:00PM	<u>6:00PM</u>
<u>I-690</u>	<u>WB</u>	<u>I-481 DEWITT</u>	<u>I-90</u>	<u>3:00PM</u>	<u>6:00PM</u>
RTE 481	NB	I-81 N. SYRACUSE	ROUTE 31	3:00PM	6:00PM
FREEWAY PORTION OF RTE 5	WB	ROUTE 695	RM 3308 1291 (JUNCTION W/ 174 IN CAMILLUS)	3:00PM	6:00PM
ROUTE 5/92 (E. GENESEE ST)	ЕВ	JAMESVILLE RD	JUNCTION WITH 92	7:00AM	10:00PM
ROUTE 5/92 (E. GENESEE ST)	WB	JAMESVILLE RD	JUNCTION WITH NY92	6:00AM	9:00PM
ROUTE 92	EB/WB	JUNCTION WITH NY5	WOODCHUCK HILL RD	3:00PM	7:00PM

B. During the following events there shall be no temporary lane or shoulder closures.

	Designated Roadway Facilities		
Facility	Limits	Holiday/Event	
I-81	Onondaga county	New York State Fair	
I-481	All		
I-81 Southbound	Central Square to Southerly terminus of I-481	Before Major Events held in the JMA Wireless Dome	
I-481	South of Route 298	(From two hours prior to the scheduled start until 30 minutes after the scheduled start of the event).	
I-481	South of Route 298		
Route 5 Westbound	W. Genesee St. to Route 695		
Route 5 Eastbound	Route 174 to Route 695	After Major Events held in the	
I-690 Eastbound	I-90(exit 1) to Hiawatha Blvd (exit 9)	JMA Wireless Dome (From 30 Minutes prior to the	
I-690 Westbound	I-81 to Route 695	scheduled conclusion until 1 hour after the actual conclusion	
Route 5 Westbound	Route 695 to Route 174	of the event.)	
Route 5 Eastbound	Route 695 to W. Genesee St		
I-690 Eastbound	Route 695 to I-81		
I-690 Westbound	Exit 7, Solvay to I-90 (exit 1)		
<u>I-81</u>	City of Cortland to City of Syracuse	Lafayette Apple Festival	
Route 5 Westbound	W. Genesee St. to Route 695	Before Amphitheater Events	
Route 5 Eastbound	Route 174 to Route 695		
Route 5 Westbound	Route 695 to Route 174	After Amphitheater Events	
Route 5 Eastbound	Route 695 to W. Genesee St		

HOLIDAY OR	Falls on		Temporary lane closures are NOT allowed
SPECIAL EVENT	<u>Days</u> <u>Date</u>		<u>from</u>
		(mm/dd/yyyy)	

New York State Fair	All	08/XX/202X thru 09/XX/202X	Beginning 6:00 AM Friday and ends 6:00 AM Tuesday
<u>Lafayette Apple</u> <u>Festival</u>	Saturday Sunday	10/TBA/202X thru 10/TBA/202X	Beginning 6:00 AM Saturday and ends 6:00 AM Monday
Before Amphitheater Events			From two hours prior to the scheduled start until 30 minutes after the scheduled start of the event
After Amphitheater Event			From 30 minutes prior to the scheduled conclusion until 1 hour after the actual conclusion of the event

#### Exceptions can only be made under the following conditions:

- Emergency work.
- Work within long-term stationary lane closures.
- Safety work that does not adversely impact traffic mobility and has been authorized by the Regional Traffic Engineer.
- C. In addition to the other restrictions described in this note, from Memorial Day weekend through Columbus Day weekend, at least two travel lanes shall remain open for through traffic on Interstate 81 as follows:
  - a. Fridays from 12:00PM (noon) to 8:00 PM in the northbound direction
  - b. Saturdays from 12:00 PM (noon) to 8:00 PM in both directions
  - c. Sundays from 12:00 PM (noon) to 8:00 PM in the southbound direction
  - d. Fridays from 12:00 PM (noon) to 8:00 PM in the southbound direction in Onondaga County from I-481 (Syracuse) to Route 11 (Nedrow)

## 19.3.6 Minimum Lane Widths during Construction

The Design-Builder shall maintain a minimum travel lane width of **11** feet during construction on all interstates or freeways. On any local cross road, 10 feet shall be maintained.

#### 19.3.7 Portable Variable Message Signs

The Design-Builder shall provide, as a minimum, **8** Portable Variable Message Signs, but more should the Design-Builder's design dictate, for the duration of this Contract. The Portable Variable Message Signs shall be deployed as necessary for the various WZTC schemes developed in coordination with, and with concurrence/acceptance from, the Department's Project Manager. The portable variable message signs provided shall meet the requirements of NYSDOT Item No. 619.110512 (Portable Variable Message Sign (PVMS) STANDARD SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENT SPECIFIED, CELLULAR COMMUNICATIONS).

PVMS shall be placed 7 days prior to any temporary signal placement is to begin and will remain in place until all work in that phase is completed.

PVMS shall be placed when there is a change to regular traffic patterns and to advise of this upcoming change in advance.

The development of messages for the Variable Message Sign(s) shall be the responsibility of the Department's CQAE and operations staff at the NYSDOT's Transportation Management Center.

The Design-Builder shall contact the Department's CQAE at least two weeks prior to placement of any Variable Message Sign regarding their location and receive concurrence of the location.

#### 19.3.8 Temporary and Interim Pavement Markings

The Design-Builder shall provide temporary and interim pavement markings during all construction phases conforming to the requirements of the NYSDOT Standard Specifications. The Design-Builder is responsible for the maintenance of all temporary or interim markings throughout the length of the contract and they shall remain visible and in good condition. Interim markings that are required between November 1-April 15 shall be epoxy.

## Water facilities in conflict located at NYS Route 5 and 92 Intersection (Lyndon Corners):

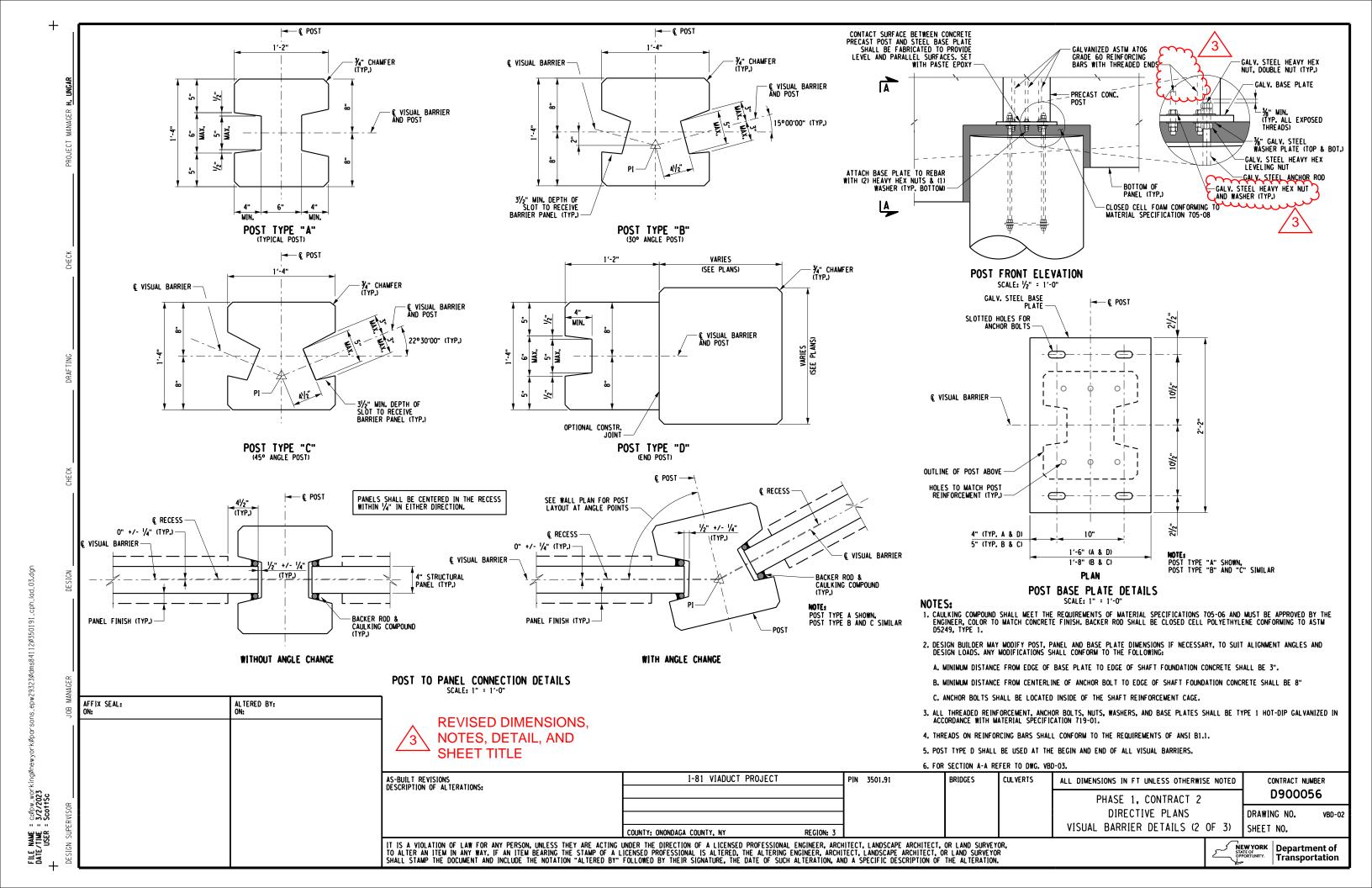
 Design-Builder will relocate a fire hydrant located on the south side of Highbridge Road (NYS Route 92) at approximately Station S6C 112+75 RT

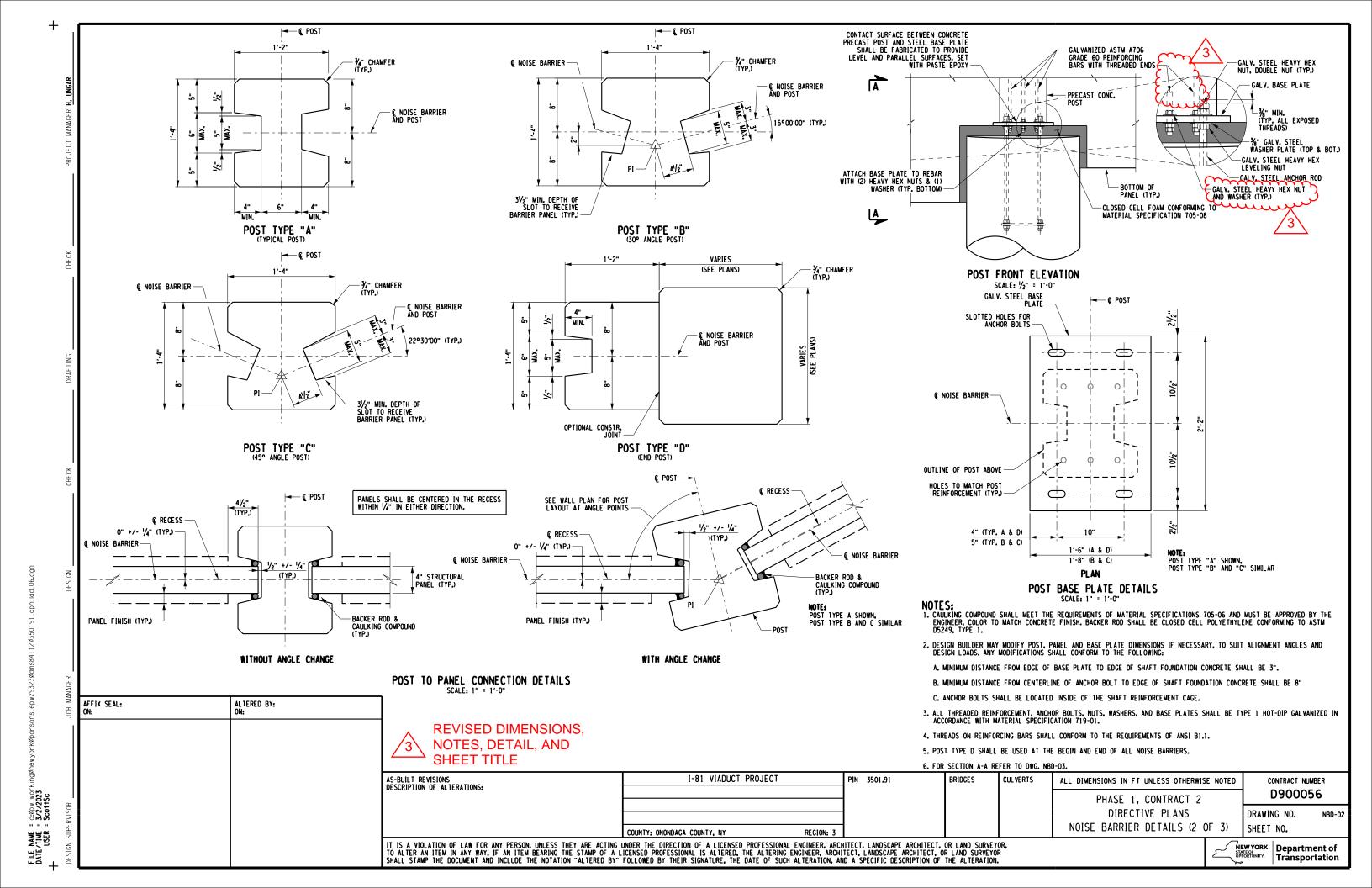
# A-4.4.3 City of Syracuse Water facilities in conflict located at I-81 / I-481 Southern Interchange:

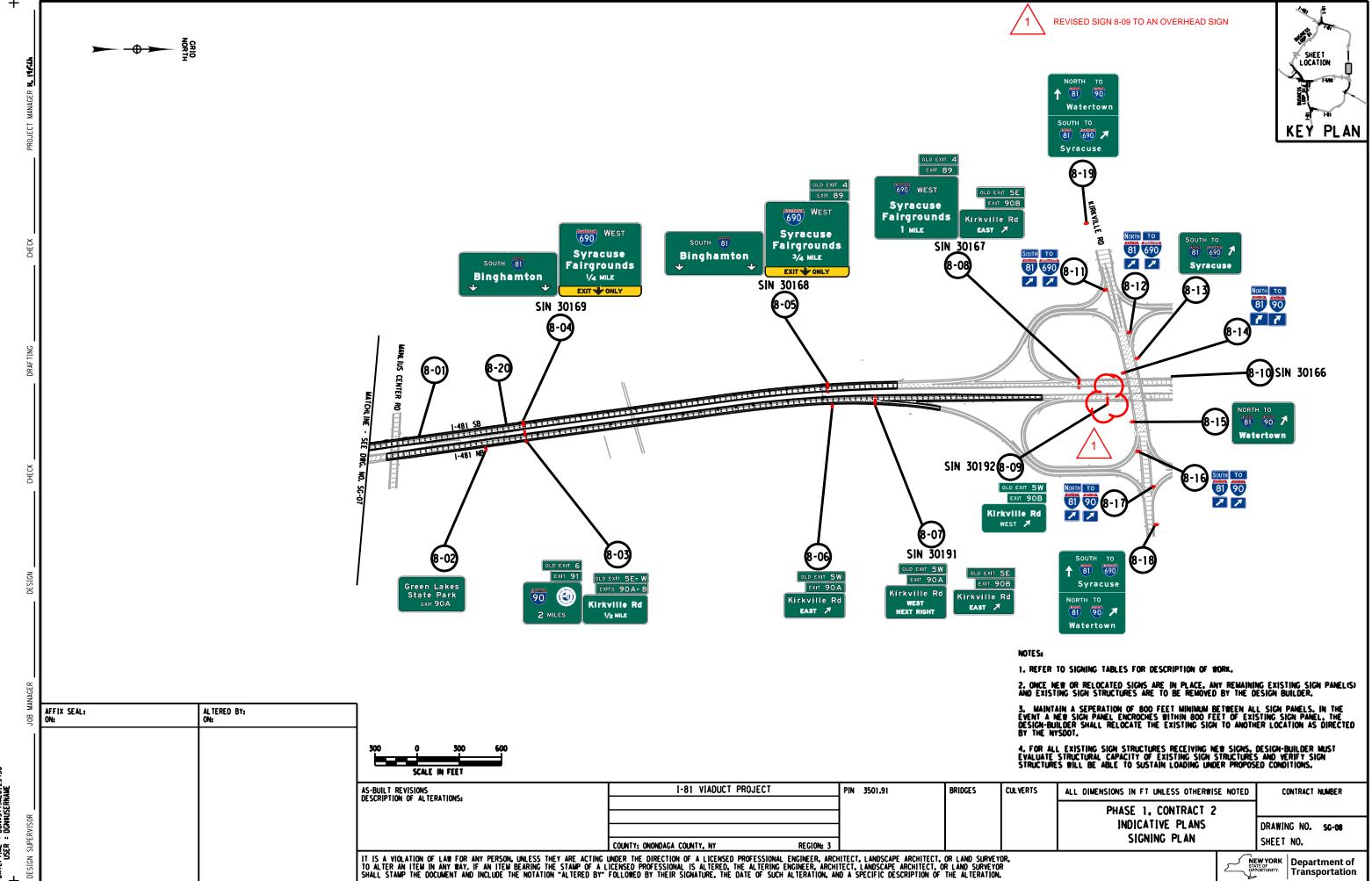
- Design-Builder will replace the existing 8" water main located on East Glen Ave. Bridge over I-81, at approximately Station R3A 118+50, with a new 12" main along relocated E. Glen Avenue. The existing 8" line shall remain in service at all times, until the new 12" main is in service. The Design-Builder will provide and install a-two new meter pits on the west side of the new bridge over future BL 81 and a new 12" water main along relocated E. Glen Avenue, connecting to the relocated 12" water main on E. Brighton Avenue. The new meter pits shall be located within the highway boundary or permanent easement area, location to be determined by City of Syracuse Water Department. The work will include reconnecting the existing private water mains on Loretto property to the new meter pits. The work shall also include installing 2 new fire hydrants, one on either side of the new bridge over BL 81.
- The water meter pits shall be designed:
  - To be watertight and located to allow natural light into the pit during testing/maintenance.
  - With adequate horizontal and vertical clearances to allow access to the device.
  - With floors pitched to drain.
  - With surface grading to divert runoff away from the pit
  - o To be Hot Box Aluminum Drop Over Enclosures. Model Number AEZ1SH

Refer to Part 5, SP-18 for Drop Over Enclosure and Backflow Prevention details.

- Once the new 12" main feeding Loretto is operational, the existing 8" main on existing E. Glen Avenue will be cut just east of the existing bridge, and a new fire hydrant will be installed. There is an existing service tee in this area that must remain in service.
- Design-Builder will relocate a 12" water main located on East Brighton Ave Bridge. The
  existing water main shall remain in service at all times, except for a maximum 4-hour
  window (subject to City Water Department approval) to connect the new main to the
  existing main. At a minimum, the existing main will be replaced between approximately







اايم						SIGNING TABLE 1
H, UNGAR	DF	SIGN RAWING NO. L	SIGN LOCATION	ROUTE	DIRECTION	NOTE
뚭		SG-06	6-01	I 81	SB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
MANAGER			6-02 6-03	I 81	NB NB	PROVIDE AND INSTALL NEW SIGN PANEL ON A NEW CANTILEVER SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
<u> </u>			6-04	I 81	SB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
PROJECT			6-05 6-06	I 81	SB SB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
É			6-07	I 81	NB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			6-08 6-09	I 81	NB SB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			6-10	HWY 5/92	EB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
Ш			6-11 6-12	HWY 5/92 HWY 5/92	EB EB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
Ш			6-12	HWY 5/92	WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			6-14	HWY 5/92	EB	PROVIDE AND INSTALL NEW SIGN PANEL ON A NEW CANTILEVER SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.
ͺʹͺͺ			6-15 6-16	HWY 5/92 HWY 5/92	WB EB	PROVIDE AND INSTALL NEW SIGN PANEL ON A NEW CANTILEVER SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
ا ا			6-17	HWY 5/92	WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
П			6-18 6-19	HWY 5/92 HWY 5/92	WB WB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANEL ON A NEW CANTILEVER SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.
П			6-20	HWY 5/92	WB	PROVIDE AND INSTALL NEW SIGN FAMEL ON A NEW CANTILEVER SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
П			6-21	HWY 5/92	EB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
П	_		6-22 6-23	HWY 5/92 HWY 5/92	EB WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			6-24	HWY 5/92	WB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
$\  \ $			6-25	HWY 5/92	EB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
		SG-07	6-26 7-01	ERIE BLVD I 81	SB SB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
		-50.	7-02	I 81	NB	PROVIDE AND INSTALL NEW SIGN PANEL ON A NEW CANTILEVER SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGN AND SIGN STRUCTURE.
			7-03 7-04	I 81 I 81	SB SB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-04	I 81	NB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-06	I 81	NB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-07 7-08	I 81	SB NB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
ı			7-09	I 81	SB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
ı			7-10	I-690 RAMP	WB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
1	_		7-11 7-12	I-690 RAMP	WB WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
ı			7-13	I-690 RAMP	WB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
Ш			7-14	I-690 RAMP	EB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-15 7-16	I-690 RAMP	EB EB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-17	I-690 RAMP	EB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
			7-18 7-19	I-690 RAMP	EB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			7-19	I-690 RAMP	EB EB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
		SG-08	8-01	I 81	SB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
Ί.	_		8-02 8-03	I 81	NB NB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
l			8-04	I 81	SB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-05	I 81	SB	PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE. REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
	<del> </del>		8-06 8-07	I 81	NB NB	PROVIDE AND INSTALL NEW SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANELS ON NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-08	I 81	SB	PROVIDE AND INSTALL NEW SICH PANELS ON NEW OVERHEAD SICH STRUCTURE REMOVE AND DISPOSE OF EXISTING SICH STRUCTURE
			8-09 8-10	I 81	NB SB	PROVIDE AND INSTALL NEW SIGNS ON A NEW OVERHEAD SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-10	KIRKVILLE RD	EB SB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-12	KIRKVILLE RD	WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-13 8-14	KIRKVILLE RD KIRKVILLE RD	WB EB	PROVIDE AND INSTALL NEW SIGN PANELS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-15	KIRKVILLE RD	EB	PROVIDE AND INSTALL NEW SIGN PANELS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
	FIX SEAL: ALTERED BY:		8-16	KIRKVILLE RD	EB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
	: ON:		8-17 8-18	KIRKVILLE RD KIRKVILLE RD	WB WB	PROVIDE AND INSTALL NEW ROUTE SIGNS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.  PROVIDE AND INSTALL NEW SIGN PANELS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-19	KIRKVILLE RD	EB	PROVIDE AND INSTALL NEW SIGNS PANELS ON A NEW GROUND MOUNTED SIGN STRUCTURE, REMOVE AND DISPOSE OF EXISTING SIGNS AND SIGN STRUCTURE.
			8-20	I 81	SB	EXISTING SIGNS AND SIGN STRUCTURE ARE TO BE REMOVED.
	AS-BUILT REVISIONS				I-81 VIAC	DUCT PROJECT PIN 3501.91 BRIDGES CULVERTS ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED CONTRACT NUMBER
	DESCRIPTION OF ALTERATIONS:					
						PHASE 1, CONTRACT 2
						INDICATIVE PLANS DRAWING NO. SG-10
				COUNTY: ONG	ONDAGA COUNTY, NY	SIGNING TABLE 1 SHEET NO.
	IT IS A VIOLATION OF LAW FOR ANY P	PERSON, UNLESS T	HEY ARE ACTI	NG UNDER THE DI	RECTION OF A LIC	ENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, THE ALTERING ENGINEER ARCHITECT LANDSCAPE ARCHITECT OR LAND SURVEYOR THE ALTERING ENGINEER ARCHITECT LANDSCAPE ARCHITECT OR LAND SURVEYOR
	TO ALTER AN ITEM IN ANY WAY. IF AN SHALL STAMP THE DOCUMENT AND INCL	N ITEM BEARING T LUDE THE NOTATIO	HE STAMP OF ON "ALTERED B	A LICENSED PROF BY" FOLLOWED BY	ESSIONAL IS ALTE THEIR SIGNATURE,	RED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR  THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.  Department  Transportation.

FILE NAME = DGN\$SPEC01234567890123456789012345678901234

DATE/TIME = DGN\$SYTIME0123456

USER = DGN\$USERNAME

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DESIGN SUPERVISOR

JOB MANAGER

#### **DESCRIPTION**

This work shall consist of designing, furnishing, and erecting a precast concrete noise barrier wall at the locations and to the elevations shown in the contract documents and as directed by the Engineer.

A precast concrete noise barrier system includes, but is not limited to, the following elements:

- Excavation and backfill
- Foundation typically drilled shafts
- Posts reinforced precast concrete or structural steel
- Panels reinforced precast concrete with or without architectural treatment (e.g. formliner patterns), color and/or exposed aggregate
- Anti-Graffiti Coating
- Access door(s) with hinges, lock(s) and handles
- Hot-Dip Galvanized steel hardware and fasteners (e.g., anchor bolts, nuts, washers)
- Miscellaneous materials (e.g., backer rod, caulking)

#### **MATERIALS**

The following sections of the standard specifications shall apply:

Portland Cement Concrete—General	501-2
Structural Concrete	555-2
Reinforcing Steel for Concrete Structures	556-2
Precast Concrete – General	704-03
Caulking Compound for Structures	705-06
Preformed, Closed-Cell Foam Material	705-08
Structural Steel	715-01
Galvanized Coatings and Repair Methods	719-01
Anchor Bolts	723-60
Rubber Impregnated Woven Cotton-Polyester Fabric	728-01
Rubber Impregnated Random Fiber Pad	728-02

and the following ASTM reference shall apply:

Standard Specification for Carbon and Alloy Steel Nuts for				
Bolts for High Pressure or High Temperature Service or Both				
Standard Specifications for Structural Bolts, Steel, Heat				
Treated, 120/105 ksi Minimum Tensile Strength				
Standard Specification for Carbon and Alloy Steel Nuts	A563			
Standard Specification for Concrete Aggregates				
Standard Specification for Backer Material for Use with	D5249			
Cold- and Hot-Applied Joint Sealants in Portland				
Cement Concrete and Asphalt Joints				
Standard Practice for Determination of the Effectiveness	D7089			
of Anti-Graffiti Coating for Use on Concrete, Masonry				
and Natural Stone Surfaces by Pressure Washing				

Standard Specification for Hardened Steel Washers F436
Standard Test Method for Laborartory Measurement of Airborne
Sound Transmission Loss of Building Partitions and Elements
Classification for Rating Sound Insulation E413

and the following standards shall apply:

NYSDOT LRFD Bridge Design Specification

American National Standard for Butts and Hinges

ANSI A156.1

Specifications for Standard Steel Doors and Frames

ANSI A250.8

with the following modifications and additions:

A. Precast Concrete: The concrete for precast panels, posts and caps shall have a

minimum compressive strength of 5000 psi at 28 days.

**B.** Cast In Place Concrete: The concrete for the drilled shafts shall meet the requirements

of §501-2 and be Class A, *UNLESS* water is encountered when excavating for the drilled shafts and the drilled shafts cannot be dewatered. Then the drilled shafts shall be

concreted with Class G Tremie Concrete in accordance with

§555-3.05 – Depositing Structural Concrete under Water. The bottom of the shaft excavation shall be cleaned of loose

material immediately prior to concreting.

**C. Reinforcing Steel:** Reinforcing steel used in precast concrete panels, caps and posts

shall be epoxy coated.

**D.** Coarse Aggregate: The coarse aggregate, used in precast components with an exposed

aggregate finish, shall be screened gravel with a No. 1 size designation. A coarse aggregate gradation meeting the requirements of ASTM C 33, size No. 67 may be used as an alternate to size No. 1. The screened gravel shall be the color indicated in the contract documents. Samples, (1-gallon each) shall be submitted for approval prior to the start of production.

#### E. Misc. Materials:

Post base plate \$715-01 Caulking compound \$705-06

Backer rod polyethylene conforming to ASTM D5249

Type I

Neoprene pads §728-01 or §728-02

Anchor bolts §723-60; galvanization §719-01, Type II ASTM A325, Type1; galvanization §719-01,

Type II

Nuts ASTM A563, Grade DH or ASTM A194,

Page 2 of 5 February 2023

Grade 2H and be galvanized in accordance

with §719-01, Type II

Washers ASTM F436 and be galvanization §719-01,

Type II

Miscellaneous steel connection hardware galvanization §719-01, Type II

Closed cell foam gasket §705-08

# F. Anti- Graffiti Coating:

Exposed concrete surfaces shall receive an anti-graffiti coating. The anti-graffiti coating shall be

- one component,
- clear-drying,
- non-sacrificial (permanent),
- tested according to ASTM D7089 and capable of achieving a rating of "Cleanability Level 1" after cleaning,
- applied at the precast manufacturer, no anti-graffiti coating shall be field applied, and
- applied according to manufacturer's instructions.

SI-Coat 531 as manufactured by CSL Silicones Inc 144 Woodlawn Road West Guelph, ON N1H 1B5 Canada 1.800.265.2753

www.cslsilicones.com

Blok-Guard & Graffiti Control II as manufactured by PROSOCO 3741 Greenway Circle Lawrence, KS 66046 1.800.255.4255 1.800.255.4255

www.prosoco.com

Permashield Non-Sacrificial #5300/5400 as manufactured by Monopole, Inc 4661 Alger Street Los Angeles, CA 90039 1.818.500.8585 www.monopoleinc.com

Or equal as approved by the Engineer.

Refer to the contract documents for foundation diameter and depth for each post for the noise barrier system.

## **FABRICATION:**

The fabrication, curing, and repair requirements for precast components shall meet the requirements of §704-03. Precast Concrete - General, with the following modifications and additions:

A. **Fabrication:** Panels shall be full height with no horizontal joints.

The concrete posts and caps shall have a smooth finish, unless specified otherwise in the contract documents. Panel finish shall be as shown in the contract documents. If an exposed aggregate finish is specified, the panels shall have completely covered, uniform surface of exposed aggregate. The depth of exposure shall be 30% of the primary size dimension of the coarse aggregate exposed.

If a form liner finish is specified, the form liner style shall be as shown in the contract documents. The number of uses per form liner shall not exceed the manufacturer's recommendations. Architectural treatments shall meet the requirements of §704-03.

B. **Repair:** The procedure for repairing damaged areas in the precast concrete, including exposed aggregate or form liner finish shall follow the requirements listed in §704-03 Repair.

## **CONSTRUCTION DETAILS**

The following sections of the standard specifications shall apply:

Trench, Culvert and Structure Excavation	206-3
Structural Concrete	555-3
Cement Mortar Pads	568-3.02

#### **DESIGN AND SHOP DRAWINGS:**

The Contractor shall design the precast concrete noise barrier system and components in accordance with these specifications, the contract documents and in conformance with the NYSDOT LRFD Bridge Design Specification, latest edition. The design shall be submitted as shop drawings to the Materials Bureau in accordance with the requirements for Drawing in §704-03 – *Precast Concrete - General*.

Shop drawings shall be submitted for review and approval before beginning any work related to the precast concrete noise barrier system. No components of the precast concrete noise barrier system shall be fabricated until design calculations and shop drawings have been approved.

The shop drawings shall include:

- noise barrier system design
- design calculations,
- all relevant aspects of the precast concrete installation,
- connections including the posts to the footing and the panels to the posts. The panel to post connection shall be designed to be as inconspicuous as possible.
- sizes of all bolts, nuts, washers, plates, and shapes to be used along with the applicable material specifications.

The shop drawings and design calculations shall be stamped by a professional engineer who is licensed and registered in the State of New York.

#### INSTALLATION

The drilled shaft foundations shall be constructed to the dimensions and elevations shown in the contract plans. Precast concrete footings shall not be allowed. The cost to construct the

foundation for the noise barrier shall include all necessary costs for excavation.

The Contractor shall lift, place, and secure precast concrete wall units in accordance with manufacturer's instructions and approved shop drawings. Follow erection procedures and sequences of erection as recommended by precast concrete wall manufacturer. When overhead utilities are present above the proposed noise barrier, placement methods must be approved by the Engineer. Consideration shall be given to a method different than placement from above.

Posts shall be true and plumb within ½" of the total height. Top of posts and panel shall be within ½" of the elevations noted in the contract documents. The Contractor shall perform any required grading between the posts to provide a continuous and smooth ground line which will meet the tolerances shown on the drawings for the distance between the bottom of the panel and the ground surface.

#### **BASIS OF ACCEPTANCE:**

The sampling and testing, marking, final product inspection, shipping and basis of acceptance requirements for precast components shall meet the requirements of §704-03 Precast Concrete - General.

#### **METHOD OF MEASUREMENT**

The work will be measured as the number of square feet of precast concrete noise barrier system furnished and erected.

The Noise Barrier System will be measured as the total number of square feet of the noise barrier measured from the top of noise barrier to the bottom of the wall panels and from center to center of posts as shown on the plans.

Only one side of the proposed wall will be measured for payment. No additional payment will be made for the canted panels or for the portion of post caps (all types) that extend above the top of the wall elevation.

#### **BASIS OF PAYMENT**

The unit bid price per square foot of precast concrete noise barrier system furnished and erected shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily perform the work. Work includes, excavation, concrete foundation, reinforcement, backfill, hardware (anchor bolts, nuts, washers, etc.), formliner treatment, final grading along the noise wall, anti-graffiti coating, and design.

Page 5 of 5